

### eqss™ Gen-3 LMS Telehandler Load Management System

# Installation Manual for JCB 550-80/560-80 Agri Plus



#### PLEASE NOTE:

\*\*\*Do Not Swap Components between Gen3-LMS kits\*\*\*

When installing multiple Gen3-LMS kits, make sure the serial number on the sticker matches the serial number on the machine.

\*\*\*Failure To Follow Installation Manual Will Void Warranty\*\*\*

#### **Documentation Conventions**

The list below highlights important documentation conventions.

Text presented in this manner is intended to provide the user with some general information. The user should ensure information presented in this manner is clearly understood.



Text presented in this manner provides the user with information to assist in completion of the current procedure being explained.



Text presented in this manner indicates that a failure to follow directions could result in damage to equipment, loss of information, bodily harm, or loss of life.

#### **Important Information**

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#### **Table of Contents**

Tools Required for Installation	6
Installation Index	7
Covers	.11
Cable Reeler Installation Cable Reeler Mounting Position	
Pressure Sensor Installation Main Cylinder Pressure Sensors Compensation Pressure Sensors	16
Reverse Camera	19
Forward Camera	20
Signal Light Installation With Windshield Guard Bar Without Windshield Guard Bar	22
Can Pressure Input Module (CPIM)	25
External Cable Completion	27
Can Cabin Interface Module (CCIM)	29
Dashboard Switches	30
Display Installation	31
Machine Connections	33
Finalisation	37
Set Time & Sensor Calibration	41
Appendix A: Attaching Display Connectors	44
Appendix B: Reattach Ferrites	48
Indexes and Tables	49

VER: 1804161544 5 of 50

### **Tools Required for Installation**

The tools required to perform the installation of the TSS are listed below

- Pencil or Texta
- Drill
- Drill bits
  - 3.3 mm
  - 4.5 mm
  - 5 mm
  - 6.25 mm
  - 6.8 mm
  - 8.5 mm
- Centre punch
- Tap T-Handle
- Taps
  - M6
  - M7 x 0.75
  - M8
- Drill and tap oil
- Metric Allen keys
- Phillips Head screw driver
- Spanners and sockets
  - **7 mm**
  - 10 mm
  - 13 mm
- Locktite thread locker
- Side cutters
- Stanely knife
- Crimpers
- Wire strippers
- Hole saw
  - 31 mm
  - 34 mm

VER: 1804161544

### **Installation Index**

The components and cables of the Gen-3 Telehandler Load Management System are outline in the tables below. The following pages show where the components are installed and the cable routing.

See the appropriate manual section for a detailed installation description for each component.



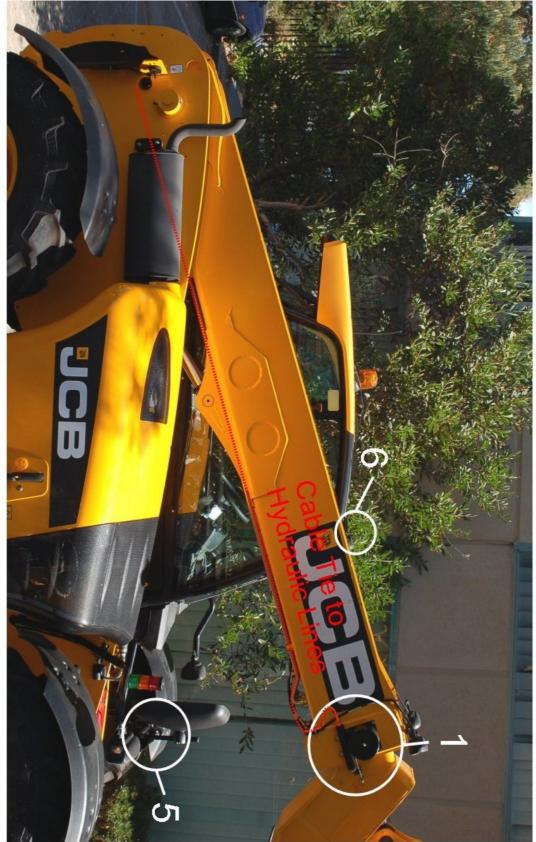
Refer to this section for any component placement or cable routing issues

Item	Component Description
1	Cable Reeler
2	Main Lift Cylinder Head Pressure Sensor
3	Main Lift Cylinder Rod Pressure Sensor
4	Can Pressure Input Module (CPIM)
5	Forward Camera
6	Signal Light
7	Can Cabin Interface Module (CCIM)
8	Display Module

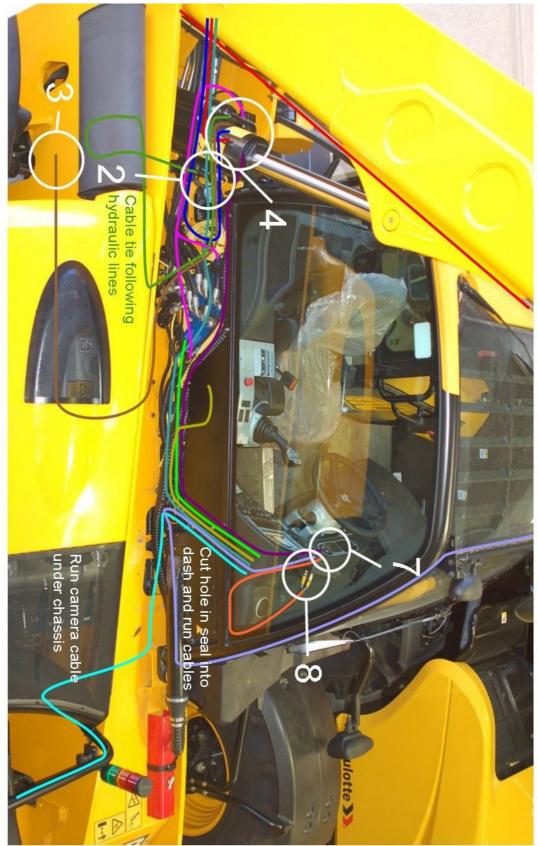
 Table 1: Component Installation Index

Colour	Cable Description	
Red	Boom Cable	
Dark Green	Main Cylinder Head Pressure Sensor Cable	
Brown	Main Cylinder Rod Pressure Sensor Cable	
Dark Blue	Compensation Cylinder Pressure Sensors Cables	
Light Blue	Forward Camera Cable	
Violet	Signal Light Cable	
Aqua	Rear Camera Cable	
Dark Purple	CCIM Cable	
Light Green	I/O Harness	
Dark Yellow	Power / Camera Harness	
Light Purple	Height Limiter Cable	
Orange	Display Cable	

Table 2: Cable Installation Index



*Illustration 1: Machine Boom* Note: The old light tower is shown.



*Illustration 2: Machine Chassis* Note: The old light tower is shown.

### **Covers**

Remove the following covers before starting the installation

Step	Description	Diagram
1.	Release the dashboard display bolts	
2.	Remove the indicator display behind the steering wheel	
3.	Release the cover beside the joystick	

Step	Description	Diagram
4.	Remove the side panel next to the cabin under the boom.	
5.	Remove the covers under the boom.	

Table 3: Cover removal

## **Cable Reeler Installation**

The cable reeler is used to measure the boom extension to determine the maximum lifting capacity.



A false N07 fault can occur if the boom jumps off the stow switch due to pressurising the hydraulic system and without operating the boom extension control. Ensure the stow switch arm is correctly adjusted to prevent this error.

Step	Description	Diagram
1.	Drill and tap the holes for the cable reeler according to the mounting diagram on page 15. Mount using the supplied M6 x 12 mm bolts and washers.	
2.	<ul> <li>Drill and tap an M8 hole for the cable anchor. Ensure the cable anchor is positioned so the cable runs in line with the boom.</li> <li>Mount the cable anchor and secure the cable to the anchor.</li> <li>Drill and tap the M6 holes for the stow switch trigger. Ensure the stow switch is pressed when the boom is retracted.</li> <li>Mount the stow switch trigger using the supplied M6 x 30 mm bolts and 17 mm standoffs.</li> </ul>	

Step	Description	Diagram
3.	Connect the supplied M12 10 metre cable (CB001033) into the cable reeler connection.	
4.	Run the cable along the hydraulic pipes running down the boom, secure using cable ties every 150 mm to 200 mm. Cable tie to the flexible hydraulic hoses down to the chassis. Make sure the cable isn't pinched or stretched when the boom is raised or lowered. Run the cable towards the cabin and cable tie with the other cables during External Cable Completion on page 27.	

Table 4: Cable Reeler Installation

#### **Cable Reeler Mounting Position**



Illustration 3: Cable Reeler Mounting Position

### **Pressure Sensor Installation**

The hydraulic pressure sensors are used to measure the lifting load of the telehandler.

### **Main Cylinder Pressure Sensors**

Step	Description	Diagram
1.	Raise the boom to approximately 40 degrees.	
	Support and secure the boom using an A Frame or similar apparatus. It must support at least 2 tons.	R.
	Apply the handbrake and insert chock under wheels.	
	Release the existing pressure switch from the port into the top of the counterbalance valve.	
	Releasing the pressure switch will release the hydraulic pressure which may result in a spray of oil.	
	Install the supplied pressure sensor and hydraulic connections into the manifold and reinstall the pressure switch as shown. Install the supplied pressure sensor and ensure it is tightly sealed.	View from the rear of the machine to the counterbalance valve on the lift cylinder
2.	Locate the 5/8 BSPP to 3/8 BSPP Hydraulic Tee (Not Supplied, JCB #: 816/90143) and connect to rod pressure sensor connections using the supplied seal as shown.	

Step	Description	Diagram
3.	Install the tee connector and pressure sensor into the rod of the main lift cylinder, where the flexible hose is connected to the rod port on the side of the lift cylinder. Start the machine, pressurise the boom and check for leaks.	
4.	Connect the supplied M12 4 metre cables (CB001026) into each of the pressure sensors. Cable tie the pressure sensor cables to the flexible hydraulic hoses connected to the main lift cylinder. Make sure the cable isn't pinched or stretched when the boom is raised or lowered. Run the cables towards the cabin and cable tie with the other cables during External Cable Completion on page 27.	<image/>

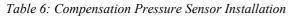
Table 5: Main Cylinder Pressure Sensor Installation

Angle the tee connections to ensure the hydraulic connections and pressure sensor do not hit the boom when the boom is lowered

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#### **Compensation Pressure Sensors**

Step	Description	Diagram
1.	Undo the hydraulic connection for the flexible hydraulic line into the head for the left compensation cylinder on the side of the boom. Install the supplied tee piece and pressure sensor in line with the hydraulic connection.	
2.	Undo the hydraulic connection for the flexible hydraulic line into the rod for the left compensation cylinder under the boom. Install the supplied tee piece and pressure sensor in line with the hydraulic connection. Start the machine, pressurise the boom and check for leaks.	
3.	Connect the supplied M12 10 metre cables (CB001033) into each of the pressure sensors. Run the cables along the hydraulic lines down to the chassis towards the cabin and cable tie with the other cables during External Cable Completion on page 27.	





Angle the tee connections to ensure the hydraulic connections and pressure sensor do not hit the boom when the boom is lowered

### **Reverse Camera**

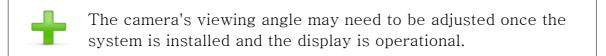
The rear camera video is displayed on the screen when the machine is in reverse gear to allow the operator to see behind the telehandler while reversing.



Do not disconnect the camera power connection while the system is operating as this can damage the fuse.

Step	Description	Diagram
1.	Drill a 31mm hole in the location shown.	
	Insert the camera through the hole and adjust the angle using the alignment washers.	
	Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032).	
	Note; The white connector is not used.	
	Run the remainder of the cable towards the cabin and cable tie with the other cables during External Cable Completion on page 27.	

Table 7: Reverse Camera Installation



### **Forward Camera**

The forward camera video is displayed on the screen when the machine is in forward gear to allow the operator to see past the boom to obstructions that would damage the right front tyre.



Do not disconnect the camera power connection while the system is operating as this can damage the fuse.

Step	Description	Diagram
1.	Mount the camera to the side mirror using the p-clips in the location shown. Secure using two M6 nuts. Connect the camera power and signal connectors to the supplied 5m camera cable (CB001032). Note; The white connector is not used. Note: The old light tower is shown.	<image/>

Step	Description	Diagram
2.	Run the cable along the mirror support structure toward the chassis, then under the chassis to the side of the cabin.	
	Cable tie with the other cables during External Cable Completion on page 27.	

Table 8: Forward Camera Installation



The camera's viewing angle may need to be adjusted once the system is installed and the display is operational.

## **Signal Light Installation**

The signal light warns other workers when the telehandler is lifting loads close to it's maximum capacity.



Ensure the power supply voltage is greater than 13.5V otherwise the signal light may not illuminate correctly.

### With Windshield Guard Bar

Step	Description	Diagram
1.	Mount the signal light to the top of the front windshield guard on the cabin.	
2.	Run the cable down the side of the windshield and cable tie to the windshield guard bar down towards the chassis.	

Table 9: Signal Light Installation With Windshield Guard Bar

#### Without Windshield Guard Bar

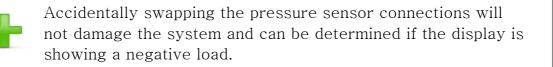
Step	Description	Diagram
1.	Remove the magnet from the bottom of the signal light mounting bracket and flip the signal light mounting bracket so the mounting holes are on the bottom.	
	Cut and remove 2.6 m of snake tube from the end of the cable starting at the signal light.	
	Drill two M4 holes to mount the signal light bracket to the left headlight support bracket on the roof.	
	Mount using the supplied M4 bolts and nuts.	
2.	Run the cable along the top of the roof to towards the right headlight support bracket.	
	Drill a single M6 hole to mount a metal p-clip.	
	Attach the cable to metal p-clip and secure using the supplied M6 bolt and nut.	
3.	Run the cable down between the edge of the windshield and cabin frame to the base of the windshield.	
	Use a water proof adhesive to ensure the cable will remain within the gap between the edge of the windshield and cabin frame.	

Step	Description	Diagram
4.	Secure the cable to the chassis using a cable tie. Note: Make sure the cable is	
	securely tensioned, so it doesn't move out of the groove between the edge of the windshield and cabin frame.	

Table 10: Signal Light Installation Without Windshield Guard Bar

## **Can Pressure Input Module (CPIM)**

The CPIM is responsible for processing the information sent from the pressure sensors.





Do not plug the pressure sensor cable into the far right side boom cable. This will damage the system.

Step	Description	Diagram
1.	Drill two M8 holes for the CPIM bracket in the side of the cabin.	
	Mount using the supplied M8 bolts and nuts.	
2.	Connect the cables for the pressure sensors and boom cable to the CPIM according to the picture shown.	
	Connect the supplied M12 4 metre cable (CB001026) into the connection out of the right side of the CPIM for the CCIM cable.	
	Run the CCIM cable towards the cabin.	

Step	Description	Diagram
3.	Run the height limiter cable from out the left side of the CPIM to the hydraulic block behind the cabin. Connect the tee connector labelled "Raise" from the height limiter cable to the boom raise (bottom left) connector on the hydraulic block and the tee connector labelled "Extend" from the height limiter cable to the boom extend (down second from right) connector on the hydraulic block. Place a single cable tie to hold each cable position then disconnect the tee's from the raise and extend connectors, otherwise the boom will not move. Complete the cable installation during External Cable Completion on page 27.	

Table 11: Can Pressure Input Module (CPIM) Installation

### **External Cable Completion**

All external cabling is completed in this step.

Step	Description	Diagram
1.	Locate the reverse camera, boom and pressure cables at the rear of the machine and cable tie to the existing snake tube and hydraulic lines running towards and underneath the cabin. Coil up any additional cable and store under the side panel beside the cabin.	
2.	At the front of the machine cable tie the front camera cable to the side of the cabin. Note: The old light tower is shown.	
3.	Run the CCIM, signal light and camera cables through the hole into the cabin	

Step	Description	Diagram
4.	Secure all the cables from the CPIM and from out the holes into the cabin from the joystick and dashboard. Coil up any additional cable and store under the side panel beside the cabin.	

Table 12: External Cable Completion

### **Can Cabin Interface Module (CCIM)**

The CCIM connects the system into the machine electronics.

Step	Description	Diagram
1.	Connect the CCIM and signal light cables to the M12 connectors on the CCIM.	C 400% 6259 CCIM C C € & ⊻ ≚ et swe C ≤ 11 2 Display
	Note: It doesn't matter which of the M12 connectors the CCIM and signal light cables are plugged into.	
2.	Connect the Power/Camera and IO Harnesses to the bulkhead connectors on the CCIM.	
	Position the CCIM underneath the dashboard using double sided velcro tape.	
	Note: Make sure to leave enough room for the connectors and that the dashboard displays can be reinstalled.	
3.	Install the backup battery behind the indicator display using double sided velcro tape.	

Table 13: CCIM Installation

### **Dashboard Switches**

The user control and override switch are installed in the dashboard.

Step	Description	Diagram
1.	Remove a blanking switch plate from the dashboard and install the override switch.	
2.	Drill a 34 mm hole into the dashboard. Install the user control in the dashboard, aligned so the Enter cap is facing up.	

Table 14: Dashboard Switches Installation

### **Display Installation**

The display shows the current safety status of the telehandler.

Step	Description	Diagram
1.	Position the display bracket in the top right of the dashboard in the approximate location shown.	
	Drill two 7 mm holes to attach the bracket to the dashboard.	
	Secure the bracket to the dashboard using the supplied large washers and nuts	
	Attach the display to the bracket and tighten the grub screw	
2.	Run the 8 pin cable from the CCIM and the 5 pin cable from the user control dial out between the dashboard and cabin plastic mounts and attach to the connectors in the back of the display.	

Table 15: Display Installation

Adjust the display bracket for optimal viewing angle once the display is powered

If the M12 screw lock connectors on the display are over tightened it will twist the connector pins attaching the connector to the PCB. See Appendix A: Attaching Display Connectors on page 44 for the correct method of attaching to the display connectors.

VER: 1804161544



If the clip-on ferrites were removed from the CCIM and user  $% \left( {{{\rm{CCIM}}}} \right)$ control cables. See Appendix B: Reattach Ferrites and page 48 for the correct reattachment position.

### **Machine Connections**

The following procedures connect the safety systems to the existing electronics in the machine.



Isolate the main battery before starting the machine connections

Step	Description	Diagram
1.	Connect the spade terminals on the green and yellow wires from the machine input harness with the 4 and 12 pin connectors into the override switch mounted in the dashboard.	
2.	Splice the following wire colours from the machine input harness with the 4 and 12 pin connectors into the connector for the left steering column switch (marked with red tape).	
	Note: Remove the steering wheel height adjustment lever, to move the steering wheel higher, to get better access to the switch connector.	
	Wire ColourWire NumberOrange809Red808	

Step		Descriptio	n	Diagram
3.	Run the snake tube with the red and white wires on the machine input harness through the hole leading outside the cabin and then through the hole leading back inside the cabin underneath the joystick.		e machine the hole bin and then ng back	
	Cut off the tee connector (if required) and join the wire colours from the machine harness to the wires into the joystick connector. Follow the appropriate table below depending on if the joystick connection is a 8 or 12 pin connector.		wire colours ness to the connector. e table the joystick	
	EQSS <u>Colour</u> Red Orange White Grey	JCB 8 Pin Wire/Colour 2903/Red 2903/Red 2904/White 2904/White	<u>Direction</u> To Joystick To ECU To Joystick To ECU	
	EQSS <u>Colour</u> Red Orange White Grey	JCB 12 Pin Pin#/Colour 2/Red 2/Red 3/White 3/White	<u>Direction</u> To Joystick To ECU To Joystick To ECU	

Step	Description	Diagram
4.	Run the two 2 pin tee connectors on the machine cutout harness through the hole leading outside the cabin, run along side the cabin to the hydraulic block located behind the cabin. Connect the tee connector to the boom lower (bottom right) connector on the hydraulic block. Place a single cable tie to hold the cable position then disconnect the tee from the boom lower connector, otherwise the boom will not move.	

Step	Descriț	otion	Diagram
5.	Attach the radio po the radio connecto		
	Note: If the radio connector is not installed in the machine. Cut off the tee connectors from the radio power harness and splice into the 4 pin radio power connector located under the dashboard according to the table below.		
	<u>Wire Colour</u> Black Red Yellow	<u>Wire Number</u> 601AG 181 301F	

Table 16: Machine Connections

## **Finalisation**

This section will complete the final power connections to power the system and finish any additional items.



Do not disconnect the camera power connection while the system is operating as this can damage the fuse.

Step	Description	Diagram
1.	Connect the 4, 6 and 12 pin connectors from the machine input and cutout harnesses into the I/O harness.	
2.	Connect the camera power and signal cables from the front and rear cameras to the power/camera harness connectors. Note: The white connector is not used.	
3.	Connect the 3 pin connector from the radio power harness into the power/camera harness.	

Step	Description	Diagram
4.	Connect the spade lug on the black wire to the negative (black) battery terminal. Connect the spade lug on the blue wire to the positive (red) battery terminal.	
5.	Coil up the extra cables and store underneath the dashboard cover.	
6.	Reconnect the tee connectors back into the hydraulic block.	

Step	Description	Diagram
7.	Reconnect the main battery from the isolation switch. Turn the machine onto first stage /accessories and ensure the system is activated.	
8.	Adjust the display bracket for optimal viewing Set the machine into forward gear to activate the forward camera. Adjust the forward camera so the front right wheel is visible. Set the machine into reverse gear to activate the reverse camera. Adjust the reverse camera so the video is level.	
9.	Operate the boom movement controls to test if a false N07 fault occurs. If a N07 fault does occur, adjust the arm on the stow switch forwards towards the stow switch trigger. Note: The actual switch arm orientation may differ from the picture.	

Step	Description	Diagram
10.	Perform a final check on all the	
	cabling and sensors.	
	Replace all the covers	

Table 17: Finalisation



Complete the system checklist once installation has been completed.

## **Set Time & Sensor Calibration**

Once the installation is complete, the time will need to be set and the sensors will require calibration.



A sensor calibration must be performed once the cable reeler and CPIM have been mounted. If the cable reeler or CPIM have been moved/repositioned a recalibration must be performed

Step	Description	Diagram
1.	Press Enter on the user control dial	Main Menu
	to enter the menu system.	Attachment Selection Menu
	Press the arrow buttons to select	
	System Menu.	System Menu
	Press Enter to select the menu.	
		Exit Menu
2.	Select Advanced Menu	System Menu
2.		Volume / Brightness
		Status Menu
		Diagnostics Menu
		System Tests
		Advanced Menu
		Return to Main Menu

Step	Description	Diagra	m
3.	Enter the password	Enter Passw	ord
	(Default Password: 2-8-4)	Number 1	2
		Number 2	8
		Number 3	4
		Submit Pas	sword
		Return to Syste	em Menu
4.	Select Set Time / Date	Advanced Set	tings
1.		Set Time /	Date
		Sensor Calib	orations
		Change Lan	guage
		Change Pas	sword
		Return to Syste	em Menu
5.	Enter the correct time and date for	Set Time / D	ate
0.	your area.	Hour	15
	Press the arrow keys to select a	Minute	54
	time/date parameter	Day	10
	Press Enter and the parameter will	Month	2
	change to red, press the arrow keys to change the value and then press the Enter key to store the value.	Year	2016
		Region	Melbourne
	Note: The hour parameter is in 24 hour clock		
	Repeat for the rest of the time values		

Save Return to Advanced Menu Advanced Settings Set Time / Date
Advanced Settings Set Time / Date
Set Time / Date
Sensor Calibrations
Change Language
Change Password
Return to System Menu
Sensor Calibration Menu
Calibrate Carrier Angle
Calibrate Boom Angle
Calibrate Boom Length
Return to Advanced Menu

Table 18: Sensor Calibration

### Appendix A: Attaching Display Connectors

The procedure below describes the correct method of attaching the cables to the screw lock connectors on the display.

If the M12 screw lock connectors on the display are over tightened, it will twist the connector pins attaching the connector to the PCB.

Step	Description	Diagram
1.	Connect the cable from the user control to the top 5 pin connector on the display. Connect the cable from the CCIM to the bottom 8 pin connector on the display.	Image: Second state of the second s
2.	Line up the alignment hole on the cable connector with the alignment notch on the display connector.	

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Step	Description	Diagram
3.	Push the female connector from the cable into the male connector on the display.	
4.	Rotate the nut on the female connector by hand in a clockwise direction, until the tension on the nut starts to increase.	
5.	Push the cable in again and repeat steps 3 and 4 until the connector is secure.	

Table 19: Install Display Connector Procedure



The method to correctly secure the cable is to push-twistpush-twist until the connector is fully inserted and secure. This will minimise the twisting force applied to the connector.

Below is a picture of a damaged connector on the PCB inside the display. This damaged occurred because the connector was over tightened.

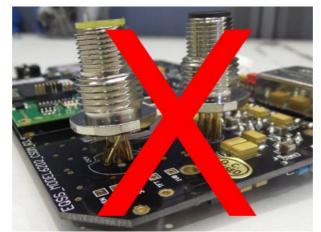


Illustration 4: Damaged Display Connector



Do not use any tools to tighten the connector.



Illustration 5: Do Not Use Tools To Tighten Connector



Do not over-tighten the nuts on the back of the display connectors. These nuts should only be hand tightened. If the nuts are overtightened it will damage the PCB inside the display.



Illustration 6: Do Not Over Tighten Nuts



Damage to the display connectors is not covered under warranty.

# **Appendix B: Reattach Ferrites**

If the clip-on ferrites on the displays are removed during installation, they will need to be reattached as shown in the procedure below.



If the ferrites are not reinstalled or attached in the specified location the Gen3–LMS kit will not meet the AS/NZS CISPR 22:2006 certification.

Step	Description	Diagram
1.	Attach the two clip-on ferrites at a location of 60 mm and 260 mm from the start of the connector to the start of the ferrite. Do this for both the CCIM and user control cables that plug into the display.	

Table 20: Reattach Ferrites Procedure

### **Indexes and Tables**

#### **Illustration Index**

Illustration 1: Machine Boom	9
Illustration 2: Machine Chassis	10
Illustration 3: Cable Reeler Mounting Position	15
Illustration 4: Damaged Display Connector	
Illustration 5: Do Not Use Tools To Tighten Connector	
Illustration 6: Do Not Over Tighten Nuts	

#### Index of Tables

Table 1: Component Installation Index	7
Table 2: Cable Installation Index	8
Table 3: Cover removal	12
Table 4: Cable Reeler Installation	14
Table 5: Main Cylinder Pressure Sensor Installation	17
Table 6: Compensation Pressure Sensor Installation	
Table 7: Reverse Camera Installation	19
Table 8: Forward Camera Installation	21
Table 9: Signal Light Installation With Windshield Guard Bar	22
Table 10: Signal Light Installation Without Windshield Guard Bar	24
Table 11: Can Pressure Input Module (CPIM) Installation	
Table 12: External Cable Completion	
Table 13: CCIM Installation	29
Table 14: Dashboard Switches Installation	
Table 15: Display Installation	31
Table 16: Machine Connections	
Table 17: Finalisation	40
Table 18: Sensor Calibration	43
Table 19: Install Display Connector Procedure	45
Table 20: Reattach Ferrites Procedure	

Equipment Safety Systems Pty. Ltd. ABN: 31 061 789 151	
27 Cumberland Drive, Seaford 3198, Victoria, Australia	

Tel: +61 3 8770 6555 Fax: +61 3 8770 6590 Web: www.eqss.com.au

**EQSS**° 50 of 50